

How to move ASM database files from one location to another by CP command

September 20, 2011 in [Oracle Database&EBS General](#) | Tags: [ASM](#), [CP command](#), [Move datafile+asm](#)

Sometimes we need to move one or more datafile from our tablespace to one location to another because of disk space issue.

In this article i try to explain how we can achive this process wiht **CP** command of **asmcmd** utulity via demo

If you want to do this process wiht **RMAN** utulity please check my other post by [click here](#)

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The database version is :

11.2.0.1

The Operating System is:

AIX 6.1

Let us check first the existing status

```
[oracle@TEST] export ORACLE_SID=+ASM
[oracle@TEST]echo $ORACLE_SID
+ASM
[oracle@TEST]sqlplus "/as sysasm"
SQL*Plus: Release 11.2.0.1.0 Production on Fri Apr 8 15:21:14 2011
Copyright (c) 1982, 2009, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Productio
With the Automatic Storage Management option
```

Let us see first our diskgroup :

```
SQL> select group_number, name, total_mb, free_mb, state, type from v$asm_d
```

Group_Number	Name	Total_MB	Free_MB	State	Type
1	ORADATA	204800	128	CONNECTED	

Before start, let us see status of our databases:

```
[oracle@TEST]export ORACLE_SID=TEST
[oracle@TEST]sqlplus "/as sysdba"
SQL> select log_mode from v$database;
LOG_MODE
-----
ARCHIVELOG
```

Now we need to identify which datafile or datafiles we will move. Here is the steps:

```
SQL> SELECT FILE_NAME FROM DBA_DATA_FILES where tablespace_name='GUNESTABLE
FILE_NAME
-----
+ORADATA/TEST/datafile/gunestablespace.270.747153997
+ORADATA/TEST/datafile/gunestablespace.271.747154095
+ORADATA/TEST/datafile/gunestablespace.272.747154201
+ORADATA/TEST/datafile/gunestablespace.273.747239703
+ORADATA/TEST/datafile/gunestablespace.274.747934181
+ORADATA/TEST/datafile/gunestablespace.275.747934253
```

Now we are going to follow below command to can copy one of datafile from one location to another by usingf CP command:

1. alter database datafile '+ORADATA/TEST/dafafile/gunestablespace.270.747153997' offline;

2. create or replace directory orcl1 as '+ORADATA';

create or replace directory orcl2 as '+ORADATA/Move_here/datafile';

3. We should use DBMS_FILE_TRANSFER package

```
BEGIN
```

```
DBMS_FILE_TRANSFER.COPY_FILE(
```

```
source_directory_object => 'ORCL1',
```

```
source_file_name => 'gunestablespace.270.747153997',
```

```
destination_directory_object => 'ORCL2',
```

```
destination_file_name => 'gunestablespace.270.747153997');
```

```
END;
```

4. Rename file

```
ALTER DATABASE RENAME FILE '+ORADATA/gunestablespace.270.747153997' TO
'+ORADATA/Move_here/datafile/gunestablespace.270.747153997';
```


5. alter database datafile '+ORADATA/pakb40/datafile/gunestablespace.270.747153997' online;

Reference:

How to move ASM database files from one diskgroup to another ? [ID 330103.1]

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